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Research Memorandum 77-23



DATA BASES ON ALTERNATE SPECIALTY SELECTION FOR 7TH - 10TH YEAR OFFICERS (AS OF 1 JULY 1975)

Alison F. Fields

CAREER DEVELOPMENT AND SOLDIER PRODUCTIVITY TECHNICAL AREA

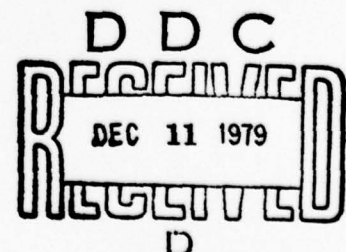


U. S. Army

Research Institute for the Behavioral and Social Sciences

October 1977

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16 2Q762717A766

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FOR 7TH - 10TH YEAR OFFICERS
AS OF 1 JULY 1975.

10 Alison F. Fields

Bertha H. Cory, Work Unit Leader

Submitted by:
Cecil D. Johnson, Chief
Career Development and Soldier Productivity Technical Area

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Approved by:

E. Ralph Dusek, Director
Individual Training and Performance
Research Laboratory

J. E. Uhlaner, Technical Director
U.S. Army Research Institute for
the Behavioral and Social Sciences

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DATA BASES ON ALTERNATE SPECIALTY SELECTION FOR 7th - 10th YEAR OFFICERS
AS OF 1 JULY 1975

The U. S. Army Research Institute for the Behavioral and Social Sciences (ARI) is doing research on officer career progression in order to provide an improved system for matching the Army's force structure requirements with the individual Army officer's career needs, to improve motivation and retain a high quality force. To this end, research is being done on the development of career planning and career self-monitoring strategies appropriate to Army officers. In addition, ARI scientists are evaluating various technologies for career planning and self-monitoring, including computer presentations tailored to the individual.

ABSTRACT

As part of the research effort, important decision points in an officer's career have been identified. One such choice point is alternate specialty designation. In the Army a specialty is:

...a grouping of duty positions whose skill and job requirements are mutually supporting in the development of officer competence to perform at the grade of colonel in the specialty. (DA Pamphlet 600-3, para 2-5).

Officers develop and maintain proficiency in two specialties. The one which receives initial emphasis in their professional development is the primary specialty--which is usually designated on commissioning. The other, which is designated in the eighth year of commissioned service, is called the alternate specialty. Table 1 shows a list of specialties. Most specialties can be designated as either primary or alternate specialties.

An experimental design for counseling on alternate specialties requires a means of exploring relations between educational and occupational experiences, and alternate specialty designation. This paper describes two data bases developed at ARI that aid research on alternate specialty selection. The primary data base contains the raw data of civilian and military educational experience (amount of education and major subjects), military job experience (duty military occupational specialties), preference for alternate specialties, and actual specialty designations for the subject population. The secondary data base is a simplification of the first data base. It shows which educational and occupational experiences are associated with preferences for each of the specialties, and which experiences are related to the specialties actually assigned as alternates. A copy of the secondary data base is available at ARI.

Table 1
SPECIALTIES

Specialty Code	Specialty
11	Infantry ^a
12	Armor ^a
13	Field Artillery ^a
14	Air Defense Artillery ^a
15	Aviation ^b
21	Engineer
25	Combat Communications-Electronics
26	Fixed Telecommunications Systems
27	Communications-Electronics Engineering
28	Audio-Visual Instructional Technology
31	Law Enforcement ^c
32	Criminal Investigation ^c
35	Tactical/Strategic Intelligence
36	Counterintelligence/HUMINT
37	Cryptology
41	Personnel Management
42	Personnel Administration
43	Club Management
44	Finance
45	Comptroller
46	Information
47	Education
48	Foreign Area Officer
49	Operations Research/Systems Analysis
51	Research and Development
52	Atomic Energy
53	Automatic Data Processing
54	Operations and Force Development
71	Aviation Materiel Management
72	Communications-Electronics Materiel Management
73	Missile Materiel Management
74	Chemical
75	Munitions Materiel Management
76	Armament Materiel Management
77	Tank/Ground Mobility Materiel Management ^d
78	Construction and Marine Materiel Management ^d
81	Petroleum, Oil, and Lubricant (POL) Management
82	Food Management
83	General Troop Support Materiel Management
86	Traffic Management
87	Marine and Terminal Operations
88	Highway-Rail Operations
91	Maintenance Management
92	Supply Management

93 Logistics Services Management
95 Transportation Management
97 Procurement
98 Logistics Management^e

^a Combat arms specialties may be designated as primary specialties only.

^b Specialty 15, Aviation, had not been identified at the time that this research was done and is not included in any of this work.

^c Law Enforcement, Specialty 31, included specialty 32, Criminal Investigation, when alternate specialty designations were made for this group, even though it had appeared as a separate specialty on the preference form.

^d Specialty 77, Tank Ground Mobility Materiel Management included Specialty 78, Construction and Marine Materiel Management, when alternate specialty designations were made for this group of officers, even though it had appeared as a separate specialty on the preference form.

^e Specialty 98, Logistics Management, is unique among specialties in that it contains only colonel level positions. It was not included on the preference form and is not included in any of this work. It has recently been renumbered Specialty 70.

PRIMARY DATA BASE

SUBJECTS

Primary and alternate specialties are a new concept in the Army: the first specialties were designated in late 1974 beginning with lieutenant colonels, continuing in order of grade through the rest of the officers; with the 7th through 10th year officers receiving their designations in the summer of 1975. Normally, alternate specialties would be designated in the eighth year of commissioned service, but an exception was made in 1975, and alternate specialties were designated for seventh year officers in order to gain more time to evaluate the system. Because some officers received alternate specialties due to unique factors that will not be relevant in the future, the data base encompasses only officers who were assigned according to the policies and procedures which will be most likely to be followed in subsequent years. For this reason the officers with the least amount of commissioned years were selected: all those in their seventh through tenth years for whom personnel records and preferences for alternate specialties could be obtained. The total number of officers was 12,597: all in the group were captains, with the exception of 812 majors. The officers were from all branches of the Army except the Judge Advocate General's Corps, the Army Medical Department, and the Chaplain Corps, for which the dual specialty development concept does not apply.

CONTENTS OF PRIMARY DATA BASE

The data base came from the personnel records and the preferences for alternate specialties expressed on DAPC-OPD-Form 854, 1 July 1974. Extracts from the preferences and the personnel records were merged to form a computerized data base containing the following items for each individual:

- .sex
- .special experience identifier, up to four in number
- .grade
- .branch
- .months of active federal commissioned service
- .primary specialty
- .alternate specialty
- .civilian education level code (CELC)
- .civilian education majors and degrees. If a degree was associated with a major that relationship was retained, up to three majors and three degrees.
- .military education--school or course, up to ten in number
- .duty military occupational specialties (DMOS), including present DMOS and up to the past 19 DMOS's
- .six preferences for alternate specialty

No names, social security numbers, or any other sort of personal identifiers were included in the data base. The extracted items are self-explanatory, except for the occupational and educational variables.

Military Education Variable. Over 800 military courses and schools are recognized by the U. S. Army. Most of these are run by the Army, although some are run by the other Services or by foreign military establishments. The courses can be as general as basic training and as narrow as homicide seminars for military police. A list of the recognized courses and schools appears in Appendix A.

Military Occupational Variable. Over 400 military occupational specialties (MOS) encompass duty positions held by officers in the population during the past ten years. An MOS is:

...the term used to identify a grouping of duty positions possessing such close occupational or functional relationship that an optimal degree of interchangeability among persons so classified exists at any given level of skill. (AR 611-101,p. 1)

MOS's are smaller occupational units than primary or alternate specialties. For example, Specialty 97, Procurement, includes such MOS's as MOS 4319, Procurement Control and Production Officer, and MOS 4320, Procurement Officer. A duty MOS indicates the type of job an officer fills as his duty. Thus, the duty MOS variable lists the types of jobs an officer has had up to the past 20 positions. A list of MOS's appears in Appendix B.

Civilian Education Variables. The civilian education level variable is a one digit code reflecting the highest level of education an officer has reached. Appendix C shows these levels.

The civilian education majors variables are academic subjects. A list of majors appears in Appendix D. The civilian education degrees are the commonly recognized academic and professional degrees. A list appears in Appendix E.

Special Experience Identifiers. The special experience identifiers mark an officer as possessing special training, skills or experience, e.g., parachutist. A list is in Appendix F.

SECONDARY DATA BASE

CONTENTS OF SECONDARY DATA BASE

The secondary data base consists of 31 tables showing associations among the experience variables, preferences, and specialties. The general format of the two-way tables consists of the set of primary specialties, the set of alternate specialties, or the set of first preference for alternate specialty in the columns and one of the background variables in the rows. Six exceptions will be discussed later. The three-way tables consist of the assigned alternate or the first preference for alternate specialty on the column, the experience variables on the row, and on the third axis, the primary specialties. A list of the tables appears in Table 2.

Table 2

TABLES IN THE SECONDARY DATA BASE

Primary Specialties by Alternate Specialties

Specialties by Ordered Preferences

Assigned Alternate Specialties by Ordered Preferences for that Specialty

Primary Specialties by Civilian Education Level

Primary Specialties by Civilian Education Majors for officers with
no degrees

Primary Specialties by Civilian Education Majors for officers with
Bachelor's degrees

Primary Specialties by Civilian Education Majors for officers with
Advanced degrees

Primary Specialties by Duty Military Occupational Specialties (DMOS)--
with repeating values

Primary Specialties by Duty Military Occupational Specialties--with
suppressed repetition

Primary Specialties by Military Education Course and Schools

Alternate Specialties by Civilian Education Level

Alternate Specialties by Civilian Education Majors for officers with no
degrees

Alternate Specialties by Civilian Education Majors for officers with
Bachelor's degrees

Alternate Specialties by Civilian Education Majors for officers with
Advanced degrees

Alternate Specialties by Duty Military Occupational Specialties (DMOS)--
with repeating values

Alternate Specialties by Duty Military Occupational Specialties--with
repetition suppressed

Alternate Specialties by Military Education Courses and Schools

First Preferences for Alternate Specialty by Civilian Education Level

First Preferences for Alternate Specialty by Civilian Education Majors
for officers with no degree

First Preferences for Alternate Specialty by Civilian Education Majors
for officers with Bachelor's Degrees

First Preferences by Alternate Specialty by Civilian Education Majors
for officers with Advanced Degrees

First Preferences for Alternate Specialty by Duty Military Occupational
Specialties (DMOS)--with repeating values

First Preferences for Alternate Specialty by Duty Military Occupational
Specialties (DMOS)--repetition suppressed

First Preferences for Alternate Specialty by Military Education Course
and Schools

Primary Specialties for Alternate Specialties by Civilian Education Majors
for officers with no degree

Primary Specialties for Alternate Specialties by Civilian Education Majors
for officers with Bachelor's Degrees

Primary Specialties for Alternate Specialties by Civilian Education Majors
for officers with Advanced Degrees

Primary Specialties for Alternate Specialties by Duty Military Occupational
Specialties (DMOS)--with repeating values

Primary Specialties by 1st Preferences for Alternate Specialty by Civilian
Education Majors for officers with no degree

Primary Specialties by 1st Preferences for Alternate Specialty by Civilian
Education Majors for officers with Bachelor's Degrees

Primary Specialties by 1st Preferences for Alternate Specialty by Civilian
Education Majors for officers with Advanced Degrees

PREFERENCES

The preferences used in the secondary data base require some explanation because of the peculiarities of the alternate specialty preference form.

The instructions for filling out the alternate specialty preference form (DAPC-OPC-Form 854) read in part:

AG (Adjutant General's Corps), MI (Military Intelligence), OD (Ordnance Corps), QM (Quartermaster Corps), SC (Signal Corps) and TC (Transportation Corps) officers will normally have one of their branch-related ... specialties designated as their primary specialty. Since this has not been determined yet, these officers should indicate as their first choice a branch related specialty which they would desire as a primary specialty. All other entries will relate to alternate specialty preferences.

Therefore, officers in AG, MI, OD, QM, SC, and TC could express only five preferences for alternate specialty. In order to compare all branches, only the first five preferences of all officers were counted. Preferences one through five (first preference = preference one) were used for Air Defense Artillery (AD), Armor (AR), Field Artillery (FA), Infantry (IN), Corps of Engineers (EN), Military Police Corps (MP), and Finance Corps (FI). Preferences two through six (first preference = preference two) were used for AG, MI, OD, QM, SC, and TC. This approach assumes that most officers followed directions in filling out their preference forms.

CIVILIAN EDUCATION IN THE TABLES

In the secondary data base there are four ways that civilian education appears in the tables:

1. The civilian education level code (CELC).
2. Undergraduate college majors for officers who had not yet completed a bachelor's degree. These are subjects an officer has listed in the personnel file as a major; there may be more than one for an individual.
3. Undergraduate college major or majors associated with each bachelor's degree an individual holds. Individuals with two or more undergraduate degrees and individuals with a degree in two or more majors are entered in the same way--an entry is made for each major involved.
4. Majors associated with graduate degrees. For this group all graduate degrees were lumped together because once again individuals holding more than one degree could not be separated from individuals holding one degree in several subjects.

Whenever civilian education majors appear in the tables, the basic unit is the major, not the individual; thus, an individual may appear as many times in a table as that officer has majors listed in the personnel files, with a limit of three. The entries in a civilian education major table should be thought of as containing education units which are assets for the Army.

The education majors used in these tables include some majors identified by the Officer Personnel Directorate as "hardskills." These are listed in the table according to general descriptions, i.e., humanities, NOC (not otherwise classified); business, NOC; engineering, NOC; physical science, NOC; social sciences, NOC; and other majors, NOC. The "hardskill" majors are identified by asterisks in Appendix D.

The three CELC tables do not follow the general format; they will be discussed later.

MILITARY EDUCATION IN THE TABLES

As in the civilian education tables, the entries in military education tables represent courses taken, not individuals. Indeed, the officers in the population appear 4.76 times on the average.

DMOS IN THE TABLES

It is the norm for an officer to receive more than one assignment in same MOS. Therefore, the same MOS may appear several times in each record as several DMOS's. For this reason there are two types of DMOS tables:

1. Each time an MOS appears it is recorded in the appropriate entry.
2. The first time an MOS appears it is recorded, and is recorded only once.

The first is called "DMOS with repeating values" and the second, "DMOS with repetition suppressed."

ENTRIES IN THE TABLES

Each entry in the tables with the general format contains three values: (1) the frequency (i.e. education units in military education or civilian education majors tables; job units in DMOS tables); (2) the percentage of the total units in the specialty or preference for specialty (the percentage of the column); (3) the percentage of the value of the background variable (the percentage of the row). Table 3 shows sample data entries from a civilian education majors table.

Table 3

SAMPLE DATA FORMAT FROM THE PRIMARY SPECIALTIES
BY CIVILIAN EDUCATION MAJORS FOR OFFICERS WITH BACHELOR'S DEGREES

	14 ^a	76	12	...
ADX ^b ENGLISH ^c 217 ^d				
ADX ^b	11 ^e	0	16	...
SPEC	2.2 ^f	0.0	1.8	
MAJR	5.1 ^g	0.0	7.4	...
AKX JOURNALISM				
48				
AKX	3	0	4	...
SPEC	0.6	0.0	0.5	...
MAJR	6.3	0.0	8.3	...

^aThe primary specialty code; in other tables, the code for alternate specialties or the code for the specialty for which first preferences were expressed would appear here.

^bThe education major code; in other tables, the military code or the DMOS would appear here.

^cThe name of the education major; in other tables the name of the military education school or course or the name of the DMOS would appear here.

^dThe total for the row (e.g. the college major). Because there are so many specialties, each page in the table takes up two computer print out pages. This number is the total of the complete row from both computer print out pages. (See Tables 4 and 5 for sample computer printout pages.)

^eThe number of majors (or job units or military education units)

^fThe percentage of the column, i.e. the specialty; in this case specialty 14.

^gThe percentage of the row, i.e. the college major (or DMOS or military education school or course); in this case, English.

Because there are so many specialties, the columns of any of the general format tables require two pages of computer printout. (See Tables 4 and 5 for two sample computer printout pages which make a single page of the table.) The row totals shown in the tables are for a complete row, i.e. two computer printout pages. In all of the tables, if the row total equalled 0, the row was not printed. This explains why some of the values listed in the Appendices do not appear in the tables.

A page from a three-way table appears identical in format to a page of a two-way table. However, the three entries in each cell represent only those items associated with the particular primary specialty. The three-way tables, in print, appear as a set of two-way tables from each primary specialty.

CELC TABLES

The three CELC tables differ slightly from the general format table as can be seen from the sample page that appears in Table 6. Rather than having the specialties in columns as in the general format, they appear as labels followed by rows containing the values and percentages for each civilian education level. The values in the CELC tables represent individuals. The percentages are those of (1) the total number of officers who have attained a particular education level; (2) the total number of officers within the specialty; and (3) the total number of officers with the population (i.e. the 7th through 10th year groups as of 1 July 1975).

PRIMARY BY ALTERNATE TABLE

The primary specialties by alternate specialties table differs from the general format of the secondary data base. It consists of lists, one for each primary specialty, of the alternate specialties which were actually designated for officers in that primary specialty. It also contains the number of officers assigned to each alternate specialty, and the percentage of the primary specialty. Table 7 shows a sample page of the Primary by Alternate Table.

SPECIALTIES BY ORDERED PREFERENCES TABLE

The Specialties by Ordered Preferences Table shows the total number of officers who asked for each specialty as an alternate specialty (i.e. indicated the specialty as one of the five preference choices), regardless of what specialty was actually designated. It also gives the number of officers who indicated each specialty as their first choice, their second choice, etc. All preferences appear in this table--even those which are against regulation (preferences for combat arms specialties, which cannot be designated as alternate specialties)

Table 4

SAMPLE COMPUTER PRINTOUT PAGE FROM THE ALTERNATE SPECIALTIES BY CIVILIAN EDUCATION MAJORS FOR OFFICERS WITH ADVANCED DEGREES (EQUALS FIRST HALF OF A TABLE PAGE)

[illegible]

Table 5

SAMPLE COMPUTER PRINTOUT PAGE FROM THE ALTERNATE SPECIALTIES BY CIVILIAN EDUCATION MAJORS FOR OFFICERS WITH ADVANCED DEGREES (EQUALS SECOND HALF OF A TABLE PAGE)

ENF ADMINISTRATION SOCIAL WELFARE		48 83 88 11 46 31 93 91 87 73 75 54 49 42 41 81 97 51 92 35 77 86 95 86 1	
ENF	0	0	0
SPEC	0.0	0.0	0.0
MAJH	0.0	0.0	0.0
ENF AREA STUDIES			
ENF	0	0	0
SPEC	0.0	0.0	0.0
MAJH	0.0	0.0	0.0
ENF CATHOLIC CONNECTIONS			
ENF	0	0	0
SPEC	0.0	0.0	0.0
MAJH	0.0	0.0	0.0
ENF CULTURAL FOUNDATIONS			
ENF	0	0	0
SPEC	0.0	0.0	0.0
MAJH	0.0	0.0	0.0
ENF ECONOMIC GENERAL			
ENF	0	0	0
SPEC	0.0	0.0	0.0
MAJH	0.0	0.0	0.0
ENF EDUCATION GENERAL (TEACHING) ADJUT			
ENF	0	0	0
SPEC	0.0	0.0	0.0
MAJH	0.0	0.0	0.0
ENF FOREIGN AFFAIRS			
ENF	0	0	0
SPEC	0.0	0.0	0.0
MAJH	0.0	0.0	0.0
ENF GOVERNMENT CIVIL			
ENF	0	0	0
SPEC	0.0	0.0	0.0
MAJH	0.0	0.0	0.0
ENF HISTORY GENERAL			
ENF	0	0	0
SPEC	0.0	0.0	0.0
MAJH	0.0	0.0	0.0
ENF INTERNATIONAL TECHNOLOGY			
ENF	0	0	0
SPEC	0.0	0.0	0.0
MAJH	0.0	0.0	0.0

Table 6
SAMPLE PAGE FROM THE ALTERNATE SPECIALTIES BY CIVILIAN EDUCATION LEVEL TABLE

	51 Research & Development	1147 ^a
1 Doctoral Degree	Sum ^b = 3 Ed ^c = 15.000 Spec ^d = 0.262 Tot. ^e = 0.024	
2 Master's degree	Sum = 308 Ed = 13.592 Spec = 26.853 Tot. = 2.445	
3 Professional degree	Sum = 1 Ed = 10.000 Spec = 0.087 Tot. = 0.008	
4 Year or more of postgraduate	Sum = 26 Ed = 10.117 Spec = 2.267 Tot. = 0.206	
5 College graduate	Sum = 588 Ed = 8.532 Spec = 51.264 Tot. = 4.668	
6 Two or more years of college	Sum = 130 Ed = 6.982 Spec = 11.324 Tot. = 1.032	
7 Less than two years of college	Sum = 65 Ed = 8.644 Spec = 5.667 Tot. = 0.516	
8 High School Graduate	Sum = 26 Ed = 4.851 Spec = 2.267 Tot. = 0.206	

^aThe total number of officers in the specialty

^bThe number of officers in the specialty who have the civilian education level.

^cThe percentage of the civilian education level across all specialties; i.e. the percentage of the Ph.D.'s in Research and Development

^dThe percentage of the specialty; i.e. the percentage of the officers in Research and Development who have Ph.D.'s as their highest degree.

^eThe percentage of the total population (7th-10th year groups as of July 1975); i.e. the percentage of the total population who have Ph.D.'s as their highest degree and are in Research and Development.

Table 7

SAMPLE PAGE OF THE PRIMARY SPECIALTIES BY
ALTERNATE SPECIALTIES TABLE

Primary = 13 Officers = 1880

SPECIALTY	NUMBER	PERCENTAGE
21	3	0.160
25	1	0.053
27	1	0.053
31	24	1.277
35	131	6.968
37	3	0.160
41	299	15.904
43	3	0.160
44	1	0.053
45	40	2.128
46	41	2.181
47	97	5.160
48	53	2.819
49	63	3.351
51	221	11.755
52	37	1.968
53	42	2.234
54	449	23.883
71	11	0.585
73	19	1.011
75	20	1.064
76	9	0.479
77	3	0.160
91	22	1.170
92	42	2.234
97	31	1.649
99	214	11.383

or those which are non-existent. The preference form (DAPC-OPD-Form 854) requires officers to indicate their preferences by entering a two-digit code representing the desired alternate specialty. The Specialties by Order Preferences Table lists all of the two-digit codes that were entered. If the code is a valid code, the name of the specialty also appears; if the code is invalid, only the number (a two-digit code) appears as the identifier. A sample page of this table is shown in Table 8.

Table 8

SAMPLE PAGE FROM THE SPECIALTIES
BY ORDERED PREFERENCES TABLE

Code	Specialty	Number of Preferences				
		Total	1st	2nd	3rd	4th 5th
68		1,	0	0	1	0 0
70		5,	2	1	1	1 0
71	Aviation Mat Mgmt	1293,	387	279	242	206 179
72	Comm-Elec Mat Mgmt	472,	71	104	100	100 97
73	Missile Mat Mgmt	338,	58	65	58	73 84
74	Chemical	192,	85	27	30	26 24
75	Munitions Mat Mgmt	280,	44	48	55	77 56
76	Armament Mat Mgmt	352,	20	83	67	95 87
77	Tank/Gnd Mobility Mat Mgmt	703,	85	136	152	170 160
78	Const + Marine Mat Mgmt	223,	17	43	52	54 57
79		1,	0	0	0	1 0
81	Pol Mgmt	233,	23	44	40	59 67
82	Food Mgmt	231,	32	38	36	53 72
83	Gen Trp Spt Mat Mgmt	406,	50	61	90	100 105
85		2,	0	1	0	0 1
86	Traffic Mgmt	593,	110	115	119	126 123
87	Marine + Terminal Opns	521,	61	91	142	111 116
88	Highway-Rail Opns	463,	35	94	97	116 121
89		1,	0	0	0	0 1
90		6,	3	1	2	0 0
91	Maintenance Mgmt	1389,	247	272	285	286 299
92	Supply Mgmt	1461,	308	307	285	271 290
93	Log Svcs Mgmt	1381,	200	279	297	305 300
94		1,	0	0	0	1 0
95	Transportation Mgmt	803,	159	133	149	173 189
96		3,	2	0	1	0 0

Table 9

ASSIGNED ALTERNATE SPECIALTIES BY ORDERED PREFERENCES FOR THAT
SPECIALTY TABLE

Specialty Code	Number of Officers Assigned to the Specialty according to their Preferences for that Specialty					
	1st	2nd	3rd	4th	5th	None
21	7	5	3	0	0	10
25	10	5	8	3	1	26
26	35	9	5	0	0	47
27	45	26	12	5	3	61
28	17	6	5	1	2	17
31	55	98	31	22	4	31
35	159	159	62	30	13	106
36	48	43	10	5	3	31
37	31	39	42	17	13	56
41	510	263	126	81	43	270
42	189	64	41	23	9	166
43	22	8	5	3	0	17
44	3	0	0	0	0	1
45	304	50	10	7	2	52
46	112	59	28	24	3	30
47	278	117	37	16	8	83
48	400	86	16	2	2	143
49	205	87	21	6	4	74
51	488	244	93	57	16	249
52	68	34	7	10	0	17
53	212	56	24	13	7	161
54	751	334	128	52	19	481
71	47	22	3	3	1	13
72	20	17	6	4	2	37
73	27	15	3	3	3	9
74	2	0	0	1	0	0
75	18	12	12	5	5	29
76	6	9	4	1	0	3
77	14	2	4	0	0	6
81	11	5	3	0	0	17
82	16	6	2	3	2	19
83	10	6	1	1	1	21
86	19	10	0	0	0	16
87	8	2	1	1	0	12
88	5	6	0	0	0	10
91	144	85	34	22	7	140
92	159	89	53	20	21	212
93	52	23	17	6	5	31
95	77	29	6	1	4	73
97	171	43	15	5	1	142
INVALID CODE	0	0	0	0	0	1206

ASSIGNED ALTERNATE SPECIALTIES BY ORDERED PREFERENCES FOR THAT SPECIALTY TABLE

This table, reproduced in its entirety in Table 9, shows, for each alternate specialty, the number of officers assigned to a specialty who had named that specialty as their first preference, their second preference, etc. The last column indicates the number of officers who had not named that particular specialty as one of their first five choices.

EXAMPLES OF POSSIBLE USES OF THE SECONDARY DATA BASE

INTRODUCTION

The Secondary data base was designed to test research ideas for career planning and, monitoring experiments, and as a data base for such experiments. It is not limited to those uses. Management questions and sociological survey questions might also be answered using the secondary data base. In this section several examples of the uses of the secondary base will be discussed.

SUMMARY DESCRIPTIONS

One question the data base can answer is what sort of officers make up the seventh through tenth year groups (as of July 1975) of the Army. What education do they have? Have any of them attended Command and General Staff College and if so, how many? These types of questions require summaries of data in the data base which can be easily supplied. In nearly all cases, the summaries are already in the data base, and any others can usually be calculated from the data.

PROFILES OF SPECIALTIES

The secondary data base contains descriptions of the educational and occupational experiences of the officers in any one specialty or in some cases, of the officers who make up a dual specialty combination (e.g. Infantry primary, Personnel Management alternate). From such profiles, officers can gain insight into which specialties they may prefer as alternates. Officers can evaluate the chances of receiving a particular alternate specialty by comparing their own backgrounds with the attributes of those who received that specialty in 1975, with appropriate warnings about the predictive power of these data (e.g. the profile of an officer's year group may be dissimilar to the data base's year groups). Officers can use these profiles to monitor their own progress in obtaining the experience needed to qualify for an alternate specialty. Managers can use such profiles to evaluate the training of officers in the relevant specialties.

Profile differences between those who asked for a specialty and those who received it can give researchers valuable hints as to where more information is needed and the type of information needed.

PROFILES OF BACKGROUND VARIABLES

The secondary data base contains the counterpart to specialty profiles: the background variables profiles. These show the distribution across specialties of the various experiences. (A specialty profile is a column from a table; the background variables profile is a row.) With these profiles, today's officers can explore what happened in 1975 to officers who shared their occupational and educational experiences. Managers can also evaluate how the Army is using its educational and occupational assets.

DESIGNATION PATTERNS

By examining profiles and using summaries to get expected values, patterns of alternate specialty designation procedures can be discovered. For example, some primary specialties determine, to a large extent, which alternate specialties will be designated. 87% of the officers in Personnel Management went into Personnel Administration as an alternate specialty and 75% of the officers in Personnel Administration went into Personnel Management. Among 301 officers whose alternate specialties were Combat-Communications Electronics, Fixed Telecommunications Systems, or Communications-Electronics Engineers, 271 (90%) came from another of those three specialties as a primary.

Officers can use designation patterns to determine to which alternate specialties they are most likely to be designated. Such patterns can also be of interest to personnel managers as feedback on the success of their procedures in selecting educational and occupational assets.

SUMMARY

Two data bases describing the interrelations of experience and alternate specialty designation have been developed. ARI scientists are using them as part of the research effort on officer career progression systems.

Although these data bases were designed for use in career counseling experiments, their uses are not limited to that application. Some of the data has been used as source material for the Officer Development Study of the Professional Development Division of the Military Personnel Center. A copy of the secondary data base is available for reference at ARI.

APPENDIX A MILITARY EDUCATION SCHOOLS AND COURSES
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01	JUDGE ADVOCATE BASIC 11 WEEKS	82
02	JUDGE ADVOCATE ADVANCED 30 WEEKS	82
03	JUDGE ADVOCATE GENERAL SPECIAL	82
04	MILITARY JUSTICE	82
05	MILITARY AFFAIRS	82
06	INTERNATIONAL LAW	82
07	CIVIL LAW	82
08	PROCUREMENT LAW	82
09	JUDGE ADVOCATE COURSE NEC	82
0A	FOREIGN LAW	82
10	ARMORED SCHOOL NEC AND ARMORED SCHOOL REFRESHER	
11	ARMORED OFFICER ORIENTATION	82
12	ARMORED OFFICER CAREER	82
13	ARMORED ASSOCIATE COMPANY OFFICER	82
14	ASSOCIATE ARMORED OFFICER CAREER	82
15	ORGANIZATIONAL MAINTENANCE OFFICER COURSE	82
16	CAVALRY SCHOOL COURSE	82
17	OCS-7	82
18	ARMORED OFFICER BASIC	82
19	ARMORED OFFICER MOBILIZATION ADVANCED	82
1B	ITALIAN WAR COLL. SUPERIOR CRS = AFSC CODE NC	
1C	ARMORED STAFF OFFICER REFRESHER	82
1D	ARMORED OFFICER MOTOR	82
1E	AIR CAVALRY QUALIFICATION(OFFICER/NO)	
1F	ARMAMENT REPAIR TECHNICIAN	
1G	AIR CAVALRY/ATTACK HELICOPTER COMMANDERS TRAINING	
1H	SENIOR OFFICER PREVENTIVE MAINTENANCE	
1M	JUNIOR OFFICER PREVENTIVE MAINTENANCE	
1P	LEGAL OFFICER MANAGEMENT	
1R	JUDGE ADVOCATE GENERAL FIELD GRADE OFFICER REFRESHER	
1S	AN/TSQ 51 SYSTEMS MAINTENANCE	
1U	LEGAL LOGISTICS OFFICER ADVANCED	
1V	LEGAL LOGISTICS OFFICER	
1W	LABOR LAW	
1X	LEGAL ASSISTANCE	
1Y	LITIGATION	
20	ARTILLERY AND MISSILE SCHOOLS NOT ELSEWHERE CITED	82
21	ARTILLERY OFFICER BASIC (INCLUDES AD PHASE)	82
22	ARTILLERY OFFICER ADVANCED (INCLUDES AD PHASE)	82
23	FA OFF ORIENTATION, BASIC & FIELD ARTY OCS	
24	FA OFFICER ASSOCIATE ADVANCED	82
25	ARTILLERY OFFICER COMMUNICATIONS	82
26	ARTILLERY OFFICER SURVEY	82
27	AD OFFICER ORIENTATION OR BASIC AND OCS	82
28	AD OFFICER ASSOCIATE ADVANCED	82
29	GUIDED MISSILE STAFF OFFICER REGULAR	82
2A	AIR DEFENSE ARTILLERY STAFF OFFICER REFRESHER	82
2B	FIELD ARTILLERY OFFICER VIETNAM ORIENTATION	82
2C	FIELD ARTILLERY DATA COMPUTER OPERATION	82
2D	8-INCH NUCLEAR PROJECTILE ASSEMBLY	82
2E	NIKE UNIVERSAL ELECTRONICS MAINTENANCE 221B	82
2F	AN/TIQ-21 HAWK GM SYSTEM SIMULATOR MAINT	
2G	DIVISION ARTILLERY STAFF OFFICER REFRESHER	82
2H	WEAPONS SUPPORT RADAR MAINTENANCE 211A	82
2I	AIR DEFENSE ELECTRONIC WARFARE	82
2J	WEATHER EQUIPMENT MAINTENANCE 201A	82
2K	ARTILLERY BALLISTIC METEOROLOGY	82
2L	NIKE-MERCURIES ELECTRONIC MAINTENANCE	
2M	IMPROVED ALT BTT ACQUISITION- RADAR MAINT TRNS	
2N	CALBRN TECHN & SPECIALIZATION AN/TSQ51 SYS MAINT	

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2P	FADAC MAINTENANCE	82
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2R	FIRE DISTRIBUTION INTEGRATION SYSTEMS REPAIR	82
2S	WEAPONS MONITORING CENTER REPAIR	82
2T	OPERATIONS CENTRAL & CODER - DECODER GROUP REP	
2U	FIELD ARTILLERY RADAR TECHNICIAN	82
2V	SAM STAFF OFFICER NIKE 2G-1177	82
2W	CHAPARRAL/VULCAN SYSTEM TECHNICIAN	
2X	CHAPARRAL/VULCAN OFFICER AND NCO QUALIFICATION	
2Y	RCAT OPERATOR	82
30	GM UNIT OFFICER 1180 12 WEEKS	82
31	CORPORAL GUIDED MISSILE OFFICER	82
32	AIR DEFENSE ARTILLERY OFFICER MOBILIZATION ADVANCED	82
34	FA RADAR OFFICER 0140	82
35	AIR DEFENSE ARTILLERY FIELD GRADE OFFICER REFRESHER	
36	RADAR ELECTRONICS CIVILIAN INST SHORT CRSES	
37	SENIOR FIELD ARTILLERY OFFICER	82
38	FIELD ARTILLERY SEARCH LIGHT	82
39	RED-EYE MISSILE SYSTEM CONTROLLER	82
3A	HAWK ORGANIZATIONAL MAINTENANCE SUPERVISOR 223C	82
3B	SAM STAFF OFFICER HAWK 1178	82
3C	ARTILLERY TARGET ACQUISITION OFFICER 1154	82
3D	SERGEANT OFFICER 1190	82
3E	PERSHING OFFICER 1190	82
3F	PERSHING SPECIALIST 214E	82
3G	SERGEANT MISSILE BATTERY 214F	82
3H	AIR DEFENSE SCHOOLS NOT ELSEWHERE CITED	82
3J	AD ARTILLERY AW OFFICER	82
3K	NIKE HERCULES OFFICER	82
3L	HAWK OFFICER	82
3M	IMPROVED NH FC SYSTEM MAINTENANCE 222B	82
3N	IMPROVED NH HIPAR SYSTEM	82
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3Q	AN/MPQ-71 RADAR SIG SYS MAINTENANCE	82
3R	AN/TSG-38 AND AN/MSQ-18 CODER - DECODER MAINT	
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3T	SURFACE TO SURFACE MISSILE SYSTEM MAINTENANCE WO INT. (PERSHING)	
3U	SURFACE TO SURFACE MISSILE SYSTEM MAINTENANCE (SERGEANT)	
3V	SPECIAL AMMUNITION MAINTENANCE NUCLEAR WEAPONS ELECTRONIC TECHNICIAN	
3X	NUCLEAR WEAPONS MAINTENANCE WO ADVANCED	
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41	GROUND GENERAL OFFICER BASIC	82
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43	IMAGE INTERPRETATION OFFICER COURSE 8503 19 WEEKS	82
45	LANGUAGE INTERPRETATION OFFICER	82
46	LANGUAGE TRANSLATION OFFICER	82
47	PRISONER OF WAR INTERROGATION OFFICER 9316 6 WEEKS	82
48	ADVANCED HORSEMANSHIP AND ANIMAL MANAGEMENT	82
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4B	FIELD ARTILLERY FIELD GRADE OFFICER REFRESHER	
4K	SURFACE TO AIR MISSILE SYSTEM MAINTENANCE(WO ADVANCED)	
4L	REDEYE MISSILE SYSTEMS GUNNER	
4M	SAFEGUARD UNIT COMMANDERS COURSE	
4N	SAFEGUARD STAFF OFFICERS COURSE	
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51	INFANTRY OFFICER BASIC	82
52	INFANTRY OFFICER ADVANCED	82
53	INFANTRY OFFICER ASSOCIATE BASIC	82

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57	MOTOR TRANSPORTATION (PRIOR TO JULY 64)	82
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59	TANK COURSE INFANTRY SCHOOL (PRIOR TO 1949)	82
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5B	ADP ADMINISTRATION NO ADVANCED COURSE	
5C	AIR DEFENSE NO ADVANCED COURSE	
5E	COMMUNICATIONS-ELECTRONICS NO ADVANCED COURSE	
5G	INTELLIGENCE/SECURITY NO ADVANCED COURSE	
5H	MARINE OPERATIONS NO ADVANCED COURSE	
5J	MILITARY POLICE NO ADVANCED COURSE	
5K	MISSILE/MUNITIONS NO ADVANCED COURSE	
5L	ORDNANCE NO ADVANCED COURSE	
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62	RANGER COURSE	82
63	INFANTRY MORTAR PLATOON LEADER COURSE	82
64	INFANTRY STAFF OFFICER REFRESHER	82
69	MANPOWER CONTROL OFFICER COURSE 6 WEEKS	82
70	ADJUTANT GENERAL SCHOOL NOT ELSEWHERE CITED	82
71	ADJUTANT GENERAL SCHOOL BASIC COURSE	82
72	ADJUTANT GENERAL SCHOOL ADVANCED COURSE	82
73	CORRECTIONAL CUSTODIAL METHODS	82
74	MILITARY PERSONNEL RECRUITING WAC/ANC OFFICER	
75	PERSONNEL MANAGEMENT OFFICER COURSE	82
76	POSTAL OPERATIONS OFFICERS OBSERVERS	82
77	MACHINE ACCOUNTING OFFICERS OBSERVERS	82
78	PERSONNEL PSYCHOLOGY 3 WEEKS	82
79	ASSOCIATE ADJUTANT GENERAL OFFICER COURSE	82
7A	OFFICERS REFRESHER COURSE 2 WEEKS	82
7B	ADJUTANT/AG FAMILIARIZATION COURSE 5 WEEKS	82
7C	MILITARY PERSONNEL OFFICER COURSE 5 WEEKS	82
7D	ADVANCE BANDSMAN BAND MASTER PREPARATORY 20 WEEKS	82
7E	SPECIAL SERVICE OFFICER 3 WEEKS	82
7F	AUTOMATIC DATA PROCESSING SYSTEMS ANAL CRS OFF	
7G	RECRUITING, REENLISTMENT, & INDUCTION OFF 3 WK	
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7K	ADJUTANT GENERAL OFFICER MOBILIZATION ADVANCED	82
7L	ADJUTANT GENERAL OFFICER SPECIAL REFRESHER	
7M	PERSONNEL RESOURCES MANAGEMENT	82
7T	ARMY SAFETY PROGRAM MANAGEMENT	
7U	COMPUTER INSTALLATION MANAGEMENT SEMINAR	
7V	COMPUTER PROGRAMMING	
7W	DATA COLLECTION AND TRANSMISSION APPRECIATION	
80	CHEMICAL SCHOOL NOT ELSEWHERE CITED	82
81	CHEMICAL OFFICER BASIC	82
82	CHEMICAL OFFICER ADVANCED	82
83	CHEMICAL OFFICER ASSOCIATE ADVANCED	82
84	UNIT ABC, OFFICER INSTRUCTOR COURSE	82
85	RADIOLOGICAL DEFENSE - ATOMIC DEFENSE CBR	82
86	CHEMICAL OFFICERS SPECIAL ORIENTATION	82
87	RADIOLOGICAL SAFETY COURSE 6 WEEKS	82
88	NUCLEAR WEAPONS EMPLOYMENT & RADL WARFARE CRS	
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8F	ENGINEER FIELD GRADE OFFICER REFRESHER	
8G	ENGINEER GRAPHICS(WO INTERMEDIATE)	
8H	FACILITIES ENGINEERING MANAGEMENT	
8K	NUCLEAR BIOLOGICAL AND CHEMICAL WEAPONS TARGET ANALYSIS	
8L	ADVANCED ADP SYSTEMS ANALYSIS	
8N	ARMY AVIATION SAFETY COURSE UNIVER. OF SO. CALIF.	
8R	NUCLEAR AND CHEMICAL TARGET ANALYSIS	
8T	JOINT MILITARY PACKAGING, INSPECTION OF PACKED HOUSEHOLD GOODS	
8W	USARADCOM CBR OFFICER	
90	ENGINEER SCHOOL, NEC	
91	ENGINEER OFFICER BASIC	82
92	ENGINEER OFFICER ADVANCED	82
93	ENGINEER OFFICER ASSOCIATE BASIC	82
94	ENGINEER OFFICER ASSOCIATE ADVANCED	82
95	MECHANICAL EQUIPMENT	82
96	POST ENGINEER	82
97	TOPOGRAPHIC COURSES	82
98	ENGINEER DEPOT COURSES	82
99	ENGINEER OFFICER MOBILIZATION ADVANCED	82
9A	AFSWP ASSEMBLY COURSE 13 WEEKS	82
9B	US ARMY AV SCHOOL SPECIAL AV STAFF OFF CRS	
9C	CBGSC TEC CONSID EMPLOYMENT OF ATOMIC WPN 4WK	
9D	USA INTELLIGENCE MP AND SPECIAL WEAPONS SCHOOL	82
9E	IBM EDUCATION CENTER SYSTEMS	82
9F	ENGINEER STAFF OFFICER REFRESHER	82
9G	FINANCIAL MANAGEMENT INTERN TRAINEE	
9H	MIL ASSISTANCE INST SENIOR SEMINAR ON FGN POLICY	
9I	CONSTRUCTION PLANNING AND OPERATIONS	82
9J	COMMERCIAL LANGUAGE SCH. VOX, BERLITZ, SANZ, ETC.	
9K	ALLIANCE FRANCAISE, PARIS FRANCE	82
9L	INTEL SCHOOL NAV STA WASH, D.C. LANG INTPRT	
9M	SPECIAL WARFARE COUNTER INSURGENCE OPS 6 WK	
9N	SPECIAL WARFARE SCHOOL - PSY OPS OFF	
9P	SPECIAL FORCES OFFICER 6 WEEKS	82
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9R	COUNTER GUERRILLA OPERATIONS COURSE 6 WEEKS	82
9S	COUNTERINSURGENCY AND SPECIAL WARFARE STAFF OFF	
9T	DASA - HQS, SANIA BASE, N M NUC ENGR T OP CSE #16	
9U	ENGINEER EQUIPMENT OFFICER	82
9V	ATOMIC DEMOLITION MUNITIONS	
9W	ADVANCED GEODETIC SURVEY	82
9X	ENGINEER CONTRACT CONSTRUCTION NEGOTIATING OCE	82
9Y	CAMOUFLAGE OFFICER	82
9Z	DISASTER RECOVERY	82
A0	FINANCE SCHOOL	82
A1	US ARMY DEFENSE COMMAND ADMINISTRATIVE ELEMENTS	
A2	FINANCE OFFICER ADVANCED	82
A3	FINANCE OFFICER ASSOCIATE BASIC	82
A4	ACCOUNTING AND AUDITING	82
A5	USAF COMPTROLLER COURSE 15 WEEKS	82
A6	INTERNAL AUDIT COURSE 5 WEEKS	82
A7	AMC COMPTROLLERSHIP	82
A8	MILITARY ASSISTANCE ORIENTATION COURSE 4 WEEKS	82
A9	DEFENSE ADVANCED CONTRACT ADMINISTRATION	
AA	NUCLEAR FAMILIARIZATION COURSE NF 2 WK OR 10 D	
AB	NUCLEAR COURSE NP 2 WEEKS	82
AC	NUCLEAR SUPERVISOR COURSE NS 6 WEEKS	82
AD	NUCLEAR TECHNICIAN NT 5 OR 11 WK - 2 COURSE*	

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AF	AFSWP COURSE WD 4 WEEKS	82
AG	REQUIREMENTS MANAGEMENT COURSE 8 WEEKS	82
AH	ACCOUNTING BASIC 4 WEEKS	82
AI	ACCOUNTING INTERMEDIATE 4 WEEKS	82
AJ	ACCOUNTING ADVANCED 5 WEEKS	82
AK	ARMY INTEGRATED MATERIEL SYSTEMS MANAGEMENT	
AL	COST ACCOUNTING 4 WEEKS	82
AM	FINANCIAL MANAGEMENT INTEGRATED ACCOUNTING 5 WEEKS	82
AN	FINANCIAL MANAGEMENT BUDGETING 5 WEEKS	82
AP	MILITARY COMPTROLLERSHIP 6 WEEKS	82
AR	MANAGERIAL ACCOUNTING COURSE 14-C-F9	82
AS	OPERATIONS RESEARCH/SYSTEMS ANALYSIS EX	
AT	ARMY NUCLEAR WEAPONS OFFICERS COURSE 1723	82
AV	ARMY NUCLEAR WEAPONS ELECTRONICS TECHN 19 WK	
AW	ARMY NUCLEAR WEAPONS ELECTRONICS TECHN 17 WK	
BO	MILITARY POLICE NOT ELSEWHERE CITED	82
B1	MILITARY POLICE OFFICER BASIC	82
B2	MILITARY POLICE OFFICER CAREER INCLUDES PREVIOUS P4	82
B3	MILITARY POLICE OFFICER ORIENTATION	82
B4	MILITARY POLICE OFFICER ASSOCIATE CAREER	82
B5	CRIMINAL INVESTIGATION OFFICER, WO AND EM	82
B6	TRAFFIC, TRAFFIC INSTITUTE, TRAFFIC ENGINEERING	82
B7	LIE DETECTOR OPERATIONS	82
B8	CIVIL AFFAIRS TRAINING	82
B9	HOMICIDE SEMINAR	82
BA	TECHNIQUES AND REVIEW AND ANALYSIS 3 WEEKS	82
BB	AUDITING OF ADPS 2 WEEKS	82
BC	FINANCIAL MANAGEMENT SYSTEMS - AUTOMATED APPL 4 WK	
BD	PROGRAMMING AND BUDGETING 4 WEEKS	82
BE	INTERNAL REVIEW	82
BF	MILITARY ACCOUNTING	82
BG	FIREARMS EXAMINATION	
BH	PROCUREMENT MANAGEMENT COURSE 8 WEEKS	82
BJ	FINGERPRINT EXAMINATION	
BK	STORAGE AND DISTRIBUTION MANAGEMENT COURSE 8 WEEKS	82
BL	MAINTENANCE MANAGEMENT COURSE 8 WEEKS	82
BM	PROPERTY DISPOSAL MANAGEMENT COURSE 5 WEEKS	82
BQ	POLOGRAPH EXAMINER PERSONNEL SCREENING	
BS	NATIONAL MATCH PISTOL AND RIFLE MAINTENANCE	
BU	PHYSICAL TRACKER	
BV	POLOGRAPH EXAMINER REFRESHER	
BW	POLOGRAPH EXAMINER TRAINING	
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C1	ORDNANCE OFFICER BASIC 9 WEEKS	82
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C9	ORDNANCE OFFICER MOBILIZATION ADVANCED	82
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CD	AMMUNITION AND MISSILE MAINT OFFICER 19 WKS 4 D	
CE	MISSILE MAINTENANCE OFFICER 19 WEEKS 4 DAY	82
CF	ARMY INSTALLATION MANAGEMENT	82
CG	MAINTENANCE OFFICER 8 WEEKS	82
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CP	U-21 AVIATOR QUALIFICATION	82
CQ	WARRENT OFFICER CANDIDATE ROTARY WING	
CR	CH-37 AVIATOR TRANSITION	82
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CY	ARADCOM OFFICER MAINTENANCE MANAGEMENT	82
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D0	QUARTERMASTER SCHOOL NOT ELSEWHERE CITED	82
D1	QUARTERMASTER OFFICER BASIC	82
D2	QUARTERMASTER OFFICER ADVANCED	82
D3	QUARTERMASTER OFFICER ASSOCIATE BASIC	82
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D5	FOOD SERVICE SUPERVISOR (ADVANCE FOOD SERVICE)	82
D6	FOOD ADVISOR/TECHNICIAN	
D7	SUBSISTENCE OFFICER (SUBSISTENCE TECHNOLOGY)	82
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E3	QUARTERMASTER SALES OFFICER	82
E4	PROPERTY DISPOSAL OPERATION (DISPOSAL OFFICER)	82
E5	MAINTENANCE OFFICER	82
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EH	SEMINAR FOR MIDDLE MANAGERS JOINT	82
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EM	WORK METHODS AND STANDARDS JOINT	82
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ZC	ARMY WAR COLL, AIR WAR COLL & NAVY WAR COLL	
ZD	ARMED FORCES STAFF COLLEGE	82
ZE	COMMAND & GENERAL STAFF COLLEGE	
ZF	WAC OFFICER CANDIDATE SCHOOL	
ZX	GRIEVANCE EXAMINER	

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APPENDIX B MILITARY OCCUPATIONAL SPECIALTIES (MOS)
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ANSI FORTRAN(1.2)/MSOS 5.1 INTEGER WORD SIZE = 1

DATE 03/24/76

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LN 0001      DIMENSION IN(60)
LN 0002      DO 200 I=1,174
LN 0003      CALL HANHEAD(1,IN(I),60,I)
LN 0004      PRINT 100,IN
LN 0005      100 FORMAT(1X,20A4)
LN 0006      200 CONTINUE
LN 0007      STOP
LN 0008      END
```

ANSI FORTRAN DIAGNOSTIC RESULTS FOR FTM.MAIN

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NO ERRORS
0002 GENERAL OFFICER 037
0003 RELIEVED FROM DUTY,SICK IN HOSPITAL OR QUARTERS 037
0005 ROTC OFFICER AWAITING ENTRY ON ACTIVE DUTY/AUT 037
0006 STUDENT OFFICER 037
0009 SPECIAL ASSIGNMENT 037
0030 POSTAL OFFICER 037
0140 RADAR OFFICER
0144 ELECTRONIC WARFARE OFFICER
0145 RADAR AND COUNTERMEASURE EQUIPMENT OFFICER
0200 COMMUNICATIONS OFFICER
0205 COMMUNICATIONS AND ELECTRONICS STAFF OFFICER 037
0210 SIGNAL OFFICER
0213 POST COMMUNICATIONS ELECTRONICS OFFICER 037
0215 BASIC SIGNAL OFFICER
0220 ARFA SIGNAL CENTER OFFICER 037
0221 COMMUNICATION CENTER OFFICER 037
0222 FIXED STATION COMMUNICATIONS CENTER OFFICER
0240 PIGEON OFFICER
0260 TELEPHONE AND TELETYPEWRITER MAINTENANCE OFFICER
0300 FIXED PLANT SIGNAL UNIT COMMANDER 037
0400 TELEPHONE AND TELETYPEWRITER OFFICER
0405 TELEPHONE-DIGITAL COMMUNICATIONS OFFICER 037
0410 TELEPHONE AND TELETYPEWRITER INSIDE PLANT OFFICER
0420 FIELD LINE CONSTRUCTION OFFICER
0425 CABLE COMMUNICATIONS OFFICER 037
0430 TELEPHONE AND TELETYPEWRITER OUTSIDE PLANT OFFICER
0434 SUBMARINE CABLE INSTALLATION AND MAINTENANCE OFFICER
0435 SUBMARINE CABLE STATION OFFICER
0500 RADIO OFFICER
0501 FIELD RADIO OFFICER
0502 FIXED STATION RADIO OFFICER
0503 MICROWAVE RADIO OFFICER
0505 RADIO SYSTEMS OFFICER 037
0590 RADIO CONTROLLED TARGET AIRPLANE OFFICER 037
0600 MOTOR OFFICER 037
0605 WHEEL VEHICLE MAINTENANCE OFFICER
0606 TRACK VEHICLE MAINTENANCE OFFICER
0609 HIGHWAY TRANSPORT PLANNING OFFICER 037
0612 FIELD TRANSPORTATION OFFICER 037
0614 HIGHWAY TRAFFIC ENGINEER 037
0632 PACK OFFICER
0660 HIGHWAY TRANSPORT OFFICER 037
0663 ENGINEER EQUIPMENT OFFICER 037
0664 AMPHIBIOUS CRAFT OFFICER 03
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0693	TRANSPORTATION TRAFFIC MANAGEMENT OFFICER	037
0694	TRANSPORTATION MOVEMENTS OFFICER	037
0706	TRAINMASTER	037
0715	RAILWAY MAINTENANCE-OF-WAY SUPERINTENDENT	037
0716	RAILWAY BRIDGE AND BUILDING SUPERVISOR	037
0717	RAILWAY TRACK SUPERVISOR	037
0718	RAILWAY SIGNAL MAINTENANCE SUPERVISOR	037
0720	ROAD FOREMAN, RAILROAD LOCOMOTIVE	037
0730	YARDMASTER	037
0735	RAILWAY MASTER MECHANIC	037
0736	RAILWAY CAR FOREMAN	037
0737	ENGINEHOUSE FOREMAN	037
0740	RAILWAY DISPATCHER	037
0750	RAILWAY OPERATIONS SUPERINTENDENT	037
0753	RAILWAY CAR SERVICE SUPERINTENDENT	037
0754	RAILWAY EQUIPMENT SUPERINTENDENT	037
0761	ELECTRIC RAILWAY POWER TRANSMISSION SUPERINTENDENT	
0801	HARBOR MASTER	037
0804	CARGO OFFICER	037
0815	PORT OPERATIONS OFFICER	037
0820	DREDGE MASTER	037
0823	DREDGE ENGINEERING OFFICER	037
0825	HARBOR CRAFT UNIT COMMANDER	037
1010	COMBAT SIGNAL UNIT COMMANDER	037
1066	HELICOPTER OFFICER	
1111	SAFEGUARD UNIT COMMANDER	
1115	SAFEGUARD STAFF OFFICER	
1120	ANTIAIRCRAFT ARTILLERY FIRE CONTROL OFFICER	037
1154	FIELD ARTILLERY TARGET ACQUISITION OFFICER	037
1172	ANTIAIRCRAFT ARTILLERY GUN UNIT COMMANDER	
1174	LIGHT AIR DEFENSE ARTILLERY UNIT COMMANDER	037
1175	ANTIAIRCRAFT ARTILLERY OPERATIONS OFFICER	
1176	COMPOSITE ANTIAIRCRAFT ARTILLERY UNIT COMMANDER	037
1177	AIR DEFENSE MISSILE STAFF OFFICER, NIKE HERCULES	037
1178	HAWK, AIR DEFENSE MISSILE STAFF OFFICER	037
1179	ANTIAIRCRAFT STAFF OFFICER	
1180	AIR DEFENSE MISSILE UNIT COMMANDER	037
1181	GUIDED MISSILE SYSTEMS OFFICER	037
1183	RECONNAISSANCE AND SURVEY OFFICER	037
1187	GUIDED MISSILE UNIT COMMANDER	
1189	ARTILLERY FORWARD OBSERVER	
1190	BALLISTIC MISSILE UNIT COMMANDER	037
1191	SURFACE TO SURFACE MISSILE STAFF OFFICER, CORPORAL	
1193	FIELD ARTILLERY UNIT COMMANDER	037
1194	PACK ARTILLERY UNIT COMMANDER	
1197	ARMORED FIELD ARTILLERY UNIT COMMANDER	
1198	FIELD ILLUMINATION UNIT COMMANDER	037
1199	FIELD ARTILLERY STAFF OFFICER	
1203	TANK UNIT COMMANDER	037
1204	ARMORED RECONNAISSANCE UNIT COMMANDER	037
1210	ARMORED COMBAT COMMAND UNIT COMMANDER	037
1219	ARMORED DIVISION TRAIN COMMANDER	
1328	ENGINEER CONSTRUCTION UNIT COMMANDER	037
1330	ARMORED ENGINEER UNIT COMMANDER	037
1331	COMBAT ENGINEER UNIT COMMANDER	037
1337	AVIATION ENGINEER UNIT COMMANDER	
1342	PORTABLE BRIDGE UNIT COMMANDER	037
1363	AMPHIBIOUS ENGINEER SHORE UNIT COMMANDER	
1367	AMPHIBIOUS ENGINEER UNIT COMMANDER	037
1415	CHEMICAL COMBAT SUPPORT UNIT COMMANDER	037
1542	INFANTRY UNIT COMMANDER	037

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1543	INFANTRY HEAVY MORTAR UNIT COMMANDER	037
1560	INFANTRY UNIT COMMANDER (MECHANIZED)	037
1690	MILITARY INTELLIGENCE UNIT COMMANDER	037
1691	ARMY CRYPTOLOGIC AND ELECTRONIC WARFARE UNIT COMMANDER	037
1720	ATOMIC WEAPONS NUCLEAR OFFICER	
1723	NUCLEAR WEAPONS OFFICER	
1980	FIXED WING AVIATION UNIT COMMANDER	037
1981	ROTARY WING AVIATION UNIT COMMANDER	037
1982	AIRFIELD COMMANDER	037
1983	AVIATION UNIT COMMANDER	
1984	FIXED WING INSTRUMENT FLIGHT EXAMINER	
1985	ROTARY WING INSTRUMENT FLIGHT EXAMINER	
1986	EXPERIMENTAL TEST PILOT	
1987	COMPOSITE AVIATION UNIT COMMANDER	037
2010	CHIEF OF STAFF	037
2011	SECRETARY OF THE GENERAL STAFF	037
2015	CONGRESSIONAL LIAISON OFFICER	037
2019	POST COMMANDER	037
2025	MAJOR DEPARTMENTAL UNIT CHIEF OR DIRECTOR	037
2030	AIDE-DE-CAMP	037
2040	TEST AND EVALUATION OFFICER	
2042	TECHNICAL AND TACTICAL BOARD MEMBER	
2110	ADJUTANT OR ADJUTANT GENERAL	037
2120	ADMINISTRATIVE OFFICER	037
2136	NONTACTICAL UNIT OFFICER	037
2145	WAC STAFF ADVISER	037
2162	OPERATIONS AND TRAINING STAFF OFFICER (G3,S3)	037
2163	AIR OPERATIONS OFFICER (G3,S3)	037
2164	AIR-GROUND OFFICER	
2167	RESEARCH AND DEVELOPMENT COORDINATOR	037
2170	TECHNICAL OPERATIONS OFFICER	037
2180	CIVIL-MILITARY OPERATIONS STAFF OFFICER (G5,S5)	037
2200	PERSONNEL OFFICER	037
2210	PERSONNEL MANAGEMENT OFFICER	037
2230	PSYCHOLOGIST	
2232	CLINICAL PSYCHOLOGIST	
2239	PSYCHOLOGICAL ASSISTANT	037
2260	PERSONNEL STAFF OFFICER (G1,S1)	037
2265	MANPOWER CONTROL OFFICER	037
2310	RECRUITING AND INDUCTION OFFICER	037
2330	LABOR RELATIONS OFFICER	037
2334	SELECTIVE SERVICE OFFICER	037
2350	RACE RELATIONS/EQUAL OPPORTUNITY OFFICER	
2401	ADP OFFICER, PCM	
2402	ADP OFFICER	037
2420	ARCHIVIST	037
2421	MILITARY HISTORIAN	037
2430	MEMORIAL ACTIVITIES OFFICER	
2431	MEDICAL REGISTRAR	037
2500	SCHOOL COMMANDANT	037
2510	ADVISER GROUP COMMANDER/SENIOR ADVISER (RESERVE COMPONENTS)	037
2517	PROFESSOR OF MILITARY SCIENCE	037
2518	AVIATION STAFF OFFICER	037
2520	TRAINING OFFICER	037
2548	TRAINING AID OFFICER	037
2610	MANAGEMENT ANALYST	037
2615	ORGANIZATION AND EQUIPMENT PLANNING OFFICER	037
2622	TRAINING CENTER UNIT OFFICER	037
2624	LOGISTICAL COMMANDER	037
2625	LOGISTICS OFFICER	037
2640	TROOP MOVEMENTS OFFICER	037
2701	NONMILITARY SUBJECTS INSTRUCTION OFFICER (DE GNATED SUBJECT)	037

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2715	MILITARY LEADERSHIP INSTRUCTOR	037
2720	CIVIL DEFENSE OFFICER	037
2728	MILITARY COLLEGE FACULTY MEMBER	037
2800	COMPTROLLER	037
2801	COMPTROLLER STAFF OFFICER, ARMY GENERAL STAFF	037
2900	HEADQUARTERS UNIT COMMANDER	037
2910	SERVICE COMPANY COMMANDER	037
2920	CIVIL AFFAIRS UNIT OFFICER	
3000	EXECUTIVE MEDICAL OFFICER	
3004	NUCLEAR MEDICAL OFFICER	037
3005	PREVENTIVE MEDICINE OFFICER	037
3006	OCCUPATIONAL MEDICINE OFFICER	037
3012	HEALTH CARE ADMINISTRATOR	
3100	GENERAL MEDICAL OFFICER	037
3101	PULMONARY DISEASE MEDICAL OFFICER	037
3105	GASTROENTEROLOGIST	037
3106	OPHTHALMOLOGIST AND OTORHINOLARYNGOLOGIST	
3107	CARDIOVASCULAR DISEASE MEDICAL OFFICER	037
3108	OBSTETRICIAN AND GYNECOLOGIST	037
3111	UROLOGIST	037
3112	DERMATOLOGIST	037
3113	ALLERGIST	037
3115	ANESTHESIOLOGIST	037
3116	PEDIATRICIAN	037
3117	PEDIATRIC CARDIOLOGIST	
3118	CHILD NEUROLOGIST	
3125	OPHTHALMOLOGIST	037
3126	OTORHINOLARYNGOLOGIST	037
3127	CHILD PSYCHIATRIST	037
3128	NEUROLOGIST	037
3129	PSYCHIATRIST	037
3130	ADOLESCENT PSYCHIATRIST	
3131	NEUROSURGEON	037
3132	HEMATOLOGIST	
3134	NEPHROLOGIST	
3135	MEDICAL ONCOLOGIST	
3136	ENDOCRINOLOGIST	
3137	RHEUMATOLOGIST	
3138	CLINICAL PHARMACOLOGIST	
3139	INTERNIST	037
3140	INFECTIOUS DISEASE OFFICER	
3141	FAMILY PHYSICIAN	
3150	GENERAL SURGEON	037
3151	THORACIC SURGEON	037
3152	PLASTIC SURGEON	037
3153	ORTHOPEDIC SURGEON	037
3154	PERIPHERAL VASCULAR SURGEON	
3160	AVIATION MEDICAL OFFICER	037
3167	PREVENTIVE DENTISTRY OFFICER	037
3168	ENDODENTIST	037
3170	GENERAL DENTISTRY OFFICER	037
3171	ORAL SURGEON	037
3172	PEDODENTIST	037
3173	ORTHODONTIST	037
3174	PERIODONTIST	037
3175	PROSTHODONTIST, REMOVABLE	037
3176	PROSTHODONTIST, FIXED	037
3177	ORAL PATHOLOGIST	037
3178	DENTAL STAFF OFFICER	037
3179	ORAL MEDICINE OFFICER	037
3180	PHYSIATRIST	037
3182	ROENTGENOLOGIST	

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3184	DIAGNOSTIC ROENTGENOLOGIST	
3200	GENERAL VETERINARY OFFICER	037
3201	VETERINARY PUBLIC HEALTH OFFICER	
3202	SMALL ANIMAL VETERINARY OFFICER	037
3203	VETERINARY STAFF OFFICER	037
3204	VETERINARY FOOD HYGIENIST	037
3205	VETERINARY LABORATORY ANIMAL OFFICER	037
3206	VETERINARY PATHOLOGIST	037
3207	VETERINARY MICROBIOLOGIST/PARASITOLOGIST	037
3208	VETERINARY RADIOBIOLOGIST/RADIOLOGIST	037
3209	VETERINARY COMPARATIVE MEDICINE OFFICER	
3210	VETERINARY LABORATORY OFFICER	
3221	MEAT AND DIARY PRODUCTS OFFICER	
3231	VETERINARY LABORATORY OFFICER	
3303	MEDICAL LABORATORY OFFICER	
3304	THERAPEUTIC RADIOLOGIST	
3305	DIAGNOSTIC RADIOLOGIST	
3306	RADIOLOGIST	037
3307	MICROBIOLOGIST	037
3308	NUCLEAR MEDICAL SCIENCE OFFICER	037
3309	BIOCHEMIST	037
3310	PARASITOLOGIST	037
3311	IMMUNOLOGIST	037
3314	CLINICAL LABORATORY OFFICER	037
3315	ENTOMOLOGIST	037
3316	NUTRITION OFFICER	037
3318	PHARMACY OFFICER	037
3324	ANATOMICAL PATHOLOGIST	
3325	PATHOLOGIST	037
3326	CLINICAL PATHOLOGIST	
3327	PHYSIOLOGIST	037
3328	FORENSIC PATHOLOGIST	
3329	NEUROPATHOLOGIST	
3340	OPTOMETRY OFFICER	037
3350	PEDIATRIST	037
3360	AUDIOLOGIST	037
3370	ENVIRONMENTAL SCIENCE OFFICER	
3371	SANITARY ENGINEER	
3380	MILITARY COMMUNITY ORAL HEALTH MANAGER	037
3416	OCCUPATIONAL THERAPIST	037
3418	PHYSICAL THERAPIST	037
3420	HOSPITAL DIETITIAN	037
3430	NURSE ADMINISTRATOR	037
3431	ARMY HEALTH SERVICE NURSE	037
3437	PSYCHIATRIC NURSE	037
3441	COMMUNICATIVE DISEASE NURSE	
3442	PEDIATRIC NURSE	037
3443	OPERATING ROOM NURSE	037
3445	NURSE ANESTHETIST	037
3446	OBSTETRIC NURSE	037
3448	MEDICAL-SURGICAL NURSE	037
3449	GENERAL DUTY NURSE	037
3500	MEDICAL UNIT COMMANDER	037
3506	FIELD MEDICAL ASSISTANT	037
3510	HEALTH SERVICES COMPTROLLER	
3520	BIOMEDICAL INFORMATION SYSTEMS OFFICER	
3530	PATIENT ADMINISTRATION OFFICER	
3564	HEALTH SERVICES PERSONNEL MANAGER	
3565	HEALTH SERVICES MANPOWER CONTROL OFFICER	
3570	HEALTH SERVICES PLANS AND OPERATIONS OFFICER	
3581	AEROMEDICAL EVACUATION OFFICER	
3590	HEALTH SERVICES MATERIEL OFFICER	

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3593	HEALTH SERVICES INTELLIGENCE OFFICER	
3595	HEALTH FACILITIES PLANNING OFFICER	
3606	SOCIAL WORK OFFICER	037
3620	PSYCHOLOGIST	037
3621	HEALTH SERVICES RESEARCH PSYCHOLOGIST	
3639	BEHAVIORAL SCIENCE ASSOCIATE	
3900	MEDICAL UNIT COMMANDER	
4000	GENERAL SUPPLY OFFICER	
4010	SUPPLY STAFF OFFICER (G4, S4)	037
4011	MAINTENANCE STAFF OFFICER	037
4015	QUARTERMASTER STAFF OFFICER	
4110	MESS OFFICER	
4112	CLUB MANAGER	
4114	FOOD ADVISER	037
4120	BAKERY OFFICER	037
4130	SURSTISTENCE OFFICER	037
4200	SUPPLY AND SERVICE OFFICER	037
4201	SUPPLY MANAGEMENT OFFICER	037
4210	ARMY EXCHANGE OFFICER	037
4220	POST QUARTERMASTER	
4222	SALES OFFICER	
4223	COMMISSARY OFFICER	037
4300	MATERIEL PROJECT/PRODUCT MANAGER	037
4310	PURCHASING AND CONTRACTING OFFICER	
4312	REAL ESTATE OFFICER	037
4319	PROCUREMENT CONTROL AND PRODUCTION OFFICER	037
4320	PROCUREMENT OFFICER	037
4360	PRINTING OFFICER	037
4370	REMOUNT OFFICER	
4371	DUG HANDLING OFFICER	037
4400	SIGNAL SUPPLY OFFICER	
4403	FOREIGN AID SUPPLY OFFICER	037
4404	PACKING OFFICER	
4415	SIGNAL EQUIPMENT MAINTENANCE AND REPAIR OFFICER	
4419	QUARTERMASTER SUPPLY OFFICER	
4420	AIRCRAFT SUPPLY OFFICER	037
4445	STORAGE OFFICER	037
4450	SUPPLY DEPUT OFFICER	
4470	ENGINEER SUPPLY AND SPARE PARTS OFFICER	
4474	TRANSPORT SUPPLY OFFICER	
4475	RAILWAY SUPPLY OFFICER	037
4490	MEDICAL SUPPLY OFFICER	037
4500	CHEMICAL SUPPLY OFFICER	
4510	UNIT AMMUNITION OFFICER	037
4512	ORDNANCE OFFICER	
4513	ORDNANCE, GUIDED MISSILE AND SPECIAL WEAPONS OFFICER	
4514	CONVENTIONAL AMMUNITION OFFICER	037
4515	MISSILE AND MUNITIONS OFFICER	037
4516	MISSILE MAINTENANCE OFFICER	037
4517	SPECIAL AMMUNITION OFFICER	037
4530	ORDNANCE SUPPLY OFFICER	
4600	PROPERTY DISPOSAL OFFICER	037
4601	SALVAGE COLLECTING OFFICER	037
4606	QUARTERMASTER REPAIR OFFICER	
4620	ORDNANCE MATERIEL DISTRIBUTION AND EVACUATION OFFICER	
4714	REFRIGERATION OFFICER	
4800	ORDNANCE MAINTENANCE OFFICER	
4801	ORDNANCE MISSILE OFFICER (FAM)	
4802	ORDNANCE MISSILE OFFICER (ADM)	
4803	MAINTENANCE OFFICER	037
4804	MARINE MAINTENANCE OFFICER	037
4805	AUTOMOTIVE MAINTENANCE AND REPAIR OFFICER	

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4806	FIRE CONTROL MAINTENANCE AND REPAIR OFFICER	
4808	ARMAMENT MAINTENANCE AND REPAIR OFFICER	037
4810	ORDNANCE GUIDED MISSILE OFFICER	
4811	GUIDED MISSILE SYSTEMS MAINTENANCE OFFICER, NISE	
4812	GUIDED MISSILE SYSTEMS MAINTENANCE OFFICER, CORPORAL	
4813	ORDNANCE SERVICE SECTION OFFICER	
4815	MECHANICAL MAINTENANCE OFFICER	037
4818	TIRE MAINTENANCE AND REPAIR OFFICER	037
4819	GUIDED MISSILE MAINTENANCE AND REPAIR OFFICER	
4820	PARACHUTE MAINTENANCE AND AERIAL SUPPLY OFFICER	037
4823	AIRCRAFT MAINTENANCE OFFICER	037
4825	ELECTRONICS MAINTENANCE OFFICER	037
4830	LAUNDRY AND FUMIGATION OFFICER	037
4850	RAILWAY SHOP SUPERINTENDENT	037
4851	CAR REPAIR SHOP SUPERINTENDENT	037
4852	BOTLER AND SMITH SHOP SUPERINTENDENT	037
4854	BLACKSMITH SHOP SUPERINTENDENT	037
4855	ERECTING AND MACHINE SHOP SUPERINTENDENT	037
4856	LOCOMOTIVE ERECTING SHOP SUPERINTENDENT	037
4857	RAILWAY MACHINE SHOP SUPERINTENDENT	037
4860	AIRBRAKE SHOP SUPERINTENDENT	037
4861	ELECTRIC LOCOMOTIVE REPAIR SHOP SUPERINTENDENT	037
4862	DIESEL LOCOMOTIVE SHOP SUPERINTENDENT	037
4880	ENGINEER EQUIPMENT MAINTENANCE AND REPAIR OFFICER	
4881	FOUNDRY OFFICER	
4890	MEDICAL EQUIPMENT MAINTENANCE OFFICER	
4891	OPTICAL LABORATORY OFFICER	
4892	SHEET METAL AND PIPEFITTING SHOP SUPERINTENDENT	037
4940	WATER SUPPLY UNIT COMMANDER	037
4942	FORESTRY OFFICER	037
4944	GAS GENERATING UNIT COMMANDER	037
4960	PETROLEUM PRODUCTS SUPPLY OFFICER	037
5000	SPECIAL SERVICES OFFICER	037
5004	TROOP INFORMATION-EDUCATION OFFICER	
5241	ARMY BAND OFFICER	037
5310	CHAPLAIN	037
5400	PUBLICATIONS OFFICER	037
5401	PUBLIC INFORMATION OFFICER	
5503	PUBLIC EDUCATION OFFICER	037
5505	INFORMATION OFFICER	037
5522	BROADCAST OFFICER	037
5525	PHYSICAL RECONDITIONING OFFICER	037
5900	PUBLIC WELFARE OFFICER	037
6000	COMPTROLLER	
6001	COMPTROLLER STAFF OFFICER, ARMY GENERAL STAFF	
6010	PUBLIC FINANCE OFFICER	037
6100	FINANCE AND ACCOUNTING OFFICER	037
6101	ACCOUNTING OFFICER	037
6200	FINANCE STAFF OFFICER	037
6201	FINANCE DISBURSING OFFICER	037
6302	PROGRAM/BUDGET OFFICER	037
6400	STATISTICIAN	037
6410	ECONOMIST	037
7004	DIVISION ENGINEER	037
7010	ENGINEER STAFF OFFICER	037
7020	PUBLIC WORKS AND UTILITIES OFFICER	037
7052	PHOTOGRAPHIC EQUIPMENT ENGINEER	
7110	CONSTRUCTION ENGINEER	037
7120	UTILITIES MAINTENANCE OFFICER	
7130	FACILITIES ENGINEER	037
7140	HIGHWAY ENGINEER	037
7210	MARINE HULL MAINTENANCE OFFICER	

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7211	MARINE HULL MAINTENANCE OFFICER	037
7221	MARINE ENGINE MAINTENANCE OFFICER	037
7240	PORT AND DOCK CONSTRUCTION ENGINEER	037
7242	MARINE DIVER	037
7300	CHEMICAL ENGINEER	037
7312	PHYSICIST	037
7314	CHEMICAL STAFF OFFICER	037
7315	CHEMICAL COMBAT SERVICE SUPPORT OFFICER	037
7317	METALLURGIST	037
7318	ORGANIC CHEMIST	037
7319	CHEMIST	037
7320	MUNITIONS PRODUCTION OFFICER	037
7330	NUCLEAR WEAPONS EFFECTS OFFICER	037
7360	CHEMICAL MUNITIONS DEVELOPMENT OFFICER	037
7381	PETROLEUM LABORATORY OFFICER	
7390	OIL REFINING ENGINEER	
7421	PRODUCTION ENGINEER	037
7422	SAFETY ENGINEER	037
7423	AVIATION SAFETY OFFICER	037
7424	EXPERIMENTAL TEST PILOT	
7500	MECHANICAL ENGINEER	037
7501	AERONAUTICAL ENGINEER	037
7502	AIR-CONDITIONING AND REFRIGERATION ENGINEER	037
7539	ORDNANCE PROOF OFFICER	
7601	ELECTRONICS ENGINEER	037
7611	ELECTRICAL ENGINEER	037
7700	WIRE COMMUNICATIONS ENGINEER	
7740	WIRE COMMUNICATIONS TRAFFIC ENGINEER	
7750	COMMUNICATIONS-ELECTRONICS SYSTEMS ENGINEER	037
7860	RADIO ENGINEER	037
7864	RADIO MAINTENANCE AND REPAIR OFFICER	
7869	RADIO TRANSCRIPTION AND SOUND OFFICER	
7881	RADIO FREQUENCY ENGINEERING OFFICER	037
7899	PUBLIC COMMUNICATIONS OFFICER	037
7900	CIVIL ENGINEER	037
7902	SOILS ENGINEER	037
7914	SURVEYING ENGINEER	
7915	TOPOGRAPHIC ENGINEER	037
7916	PHOTOMAPPING ENGINEER	
7917	MAP REPRODUCTION OFFICER	
7922	RAILWAY CONSTRUCTION ENGINEER	037
7930	PETROLEUM ENGINEER	037
7932	PIPELINE ENGINEER	037
7940	GEOLOGIST	
7960	SANITARY ENGINEER	
8000	CIVIL AFFAIRS AGRICULTURAL OFFICER	
8101	LEGAL OFFICER	
8102	MILITARY JUDGE, TRIAL AND APPELLATE LEVEL	
8103	JUDGE ADVOCATE OR JUDGE ADVOCATE GENERAL	
8104	CIVIL GOVERNMENT OFFICER	
8105	CIVIL AFFAIRS OFFICER (GS-SS)	
8127	MARINE CASUALTY INVESTIGATING OFFICER	
8128	ADMIRALTY LAW OFFICER	
8130	PATENT LAWYER	
8204	METEOROLOGIST	
8311	GEOGRAPHER	
8400	PHYSICAL ANTHROPOLOGIST	
8430	RESEARCH PSYCHOLOGIST	
8500	PICTORIAL UNIT COMMANDER	
8503	PHOTO INTERPRETER	
8510	PICTORIAL OFFICER	
8511	MOTION PICTURE AND TV DIRECTOR	

8521 MOTION PICTURE OR TV WRITER
 8530 AUDIO VISUAL INSTRUCTIONAL TECHNOLOGY OFFICER
 8540 STILL PHOTOGRAPHY OFFICER
 8605 ARTS-MONUMENTS OFFICER
 8700 OPERATIONS RESEARCH-SYSTEMS ANALYSIS (OR/SA)
 9000 PUBLIC SAFETY OFFICER
 9100 PROVOST MARSHAL
 9110 MILITARY POLICE OFFICER
 9121 CORRECTIONAL OFFICER
 9125 CONFINEMENT OFFICER
 9150 CRIMINAL INVESTIGATION OFFICER
 9210 FACILITIES PROTECTION OFFICER
 9224 EXPLOSIVE ORDNANCE DISPOSAL OFFICER
 9300 STRATEGIC INTELLIGENCE STAFF OFFICER (G2/J2)
 9301 TACTICAL INTELLIGENCE STAFF OFFICER (G2/S2)
 9302 COUNTERINTELLIGENCE OFFICER (CIC)
 9303 ARMY ATTACHE
 9304 AIR INTELLIGENCE OFFICER
 9305 PSYCHOLOGICAL OPERATIONS OFFICER
 9306 FOREIGN LANGUAGE PROPAGANDA OFFICER (DESIGNATED LANGUAGE)
 9307 INSTALLATION INTELLIGENCE OFFICER
 9308 STRATEGIC INTELLIGENCE OFFICER
 9309 AERIAL SURVEILLANCE OFFICER
 9310 INSPECTOR GENERAL
 9316 PRISONER OF WAR INTERROGATION OFFICER
 9318 ORDER OF BATTLE SPECIALIST
 9330 TRANSLATION OFFICER (DESIGNATED LANGUAGE)
 9332 INTERPRETER
 9335 CENSORSHIP OFFICER
 9340 TECHNICAL INTELLIGENCE COORDINATION OFFICER
 9414 FIRE PROTECTION OFFICER
 9511 CAMOUFLAGE OFFICER
 9601 CRYPTANALYTIC OFFICER
 9604 LANGUAGE OFFICER
 9600 GENERAL ELECTRONIC WARFARE CRYPTOLOGIC OFFICER
 9610 ELFCETRONIC COUNTERMEASURES OFFICER
 9620 SIGNAL INTELLIGENCE STAFF OFFICER
 9630 SIGNAL SECURITY STAFF OFFICER
 9640 ELFCETRONIC WARFARE CRYPTOLOGIC STAFF OFFICER
 9666 COUNTERINTELLIGENCE OFFICER
 9668 AREA INTELLIGENCE OFFICER

B-2

Appendix C

CIVILIAN EDUCATION LEVEL CODES

<u>Code</u>	<u>Level</u>
1	Doctoral degree
2	Master's degree
3	Professional degree
4	Year or more of postgraduate
5	College graduate
6	Two or more years of college
7	Less than two years of college
8	High school graduate
9	Non-high school graduate

APPENDIX D
CIVILIAN EDUCATION MAJORS

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<u>CODE</u>	<u>DESCRIPTION</u>
A	HUMANITIES
AAA	Art Commercial
AAX	Art General
ABX	Language Literature Classical (Greek-Latin Ancient Hebrew)
ACA	Education, Religious
ACB	Pastoral Counseling
ACC	Religion Theology
*ADX	English
AEX	Music
AFA	Public Speaking
AFB	Dramatics
AFC	Homiletics and Communication Skills
*AGA	Broadcasting (Announcer)
*AGB	Production Motion Picture
AGC	Production Television
AGE	Photography
AHX	Language Literature Foreign
*AKX	Journalism Writing Editing
*ALX	Philosophy
AXX	Arts-Classics General
B	BUSINESS
*BAA	Accounting Auditing
BAC	Advertising
*BAD	Banking and Financing
*BAE	Finance General
BAF	Commerce Marketing Merchandising
BAK	Labor Relations
*BAL	Operations Research Analyst (Business)
*BAM	Comptrollership
*BAN	ADPS-Business
*BAX	Business Administration
BBA	Administration Public
*BBB	Personnel Management/Administration
*BBC	Correctional Administration
*BBD	Commerical Aviation Transportation
BBE	Research Program Management
*BBF	Management Logistics
*BBG	Transportation and Traffic Management
*BBH	Management Institutional
*BBH	Health Services Administration
*BBK	Management Industrial
*BBL	Management Aerospace
BBM	Church Management
*BBN	Hotel-Restaurant Management

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*BBP	Procurement and Contract Management
BBS	Safety
*BBT	Telecommunications Management
BBX	Management General
BCA	Foreign Trade
*BCX	Business Economics
BXX	Business General

C ENGINEERING

CAA	Engineering Architectural
CAB	Engineering Naval Architecture
CAC	Architecture Landscape
CAX	Architecture General
CBX	Engineering Agriculture
CCE	Sanitary Science and/or Environmental Health Science
*CCF	Engineering Structural
CCG	Civil Engineering (Structural Dynamics)
CCH	Engineering (Transportation)
*CCK	Radiological Safety and Defense
*CCL	City Planning
*CCN	Engineering Space Facilities
CCP	Environmental Health Engineering
*CCX	Civil Engineering
CDX	Engineering Ceramic
*CEX	Engineering Chemical
*CFA	Aero Space Engineering (Space Travel)
CFB	Physics Space
*CFX	Engineering Aeronautical
*CGA	Production Design Engineering
*CGX	Engineering Administration
*CHA	Engineering Electronics
*CHB	Engineering Radio
CHD	Engineering Instrumentation
*CHE	Communications
*CHX	Engineering Electrical
*CKB	Engineering Ordnance
CKC	Engineering Railway
CKD	Engineering Refrigeration
CKE	Engineering Air Conditioning
*CKF	Engineering Hydraulic
*CKH	Engineering Mechanics
CKK	Engineering Heating
*CKL	Engineering Automotive
CKM	Engineering Diesel
*CKN	Engineering Explosive
*CKP	Guided Missiles
*CKX	Mechanical Engineering
*CLA	Engineering Nuclear Effects
CLB	Engineering Reactor
*CLD	Civil Engineering (Construction)
CLE	Maintainability Engineering

*CLX Engineering Nuclear
 *CLX Civil Engineering (Nuclear Engineering)
 CMX Engineering Marine
 CNX Engineering Metallurgical
 *CPX Engineering Mining
 *CRA Fuel Technology
 CRX Engineering Petroleum
 *CSX Engineering Physics
 CTX Engineering Safety
 *CUA Engineering - ADPS
 *CUC Operations Research Analyst (Engineering)
 *CUX Systems Engineering
 CWX Engineering Textile
 CXX Engineering General
 *CYX Engineering Industrial

D PHYSICAL SCIENCES

DAA Agriculture General
 DAB Agronomy Soil Science
 DAD Dairy Science
 DAE Fish Resources
 *DAF Food Technology
 DAG Histology
 DAH Horticulture
 DAI Embryology
 DAK Husbandry Animal
 DAL Husbandry Poultry
 DAM Plant Pathology
 DAN Sugar Technology
 DAP Wild Life Resources
 DAR Biometry
 DAX Agriculture-Forestry General
 DBA Astrodynamics
 DBB Navigation Celestial
 DBC Astrophysics
 DBX Astronomy
 DCA Botany General
 DCB Entomology
 DCC Bacteriology
 DCD Parasitology
 DCE Taxonomy
 DCF Zoology
 DCG Med Microbiology
 DCX Biology
 DCX Biological Sciences General
 *DDA Biochemistry General
 DDB Chemistry Analytical General
 *DDC Chemistry Inorganic General

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*DDD	Chemistry Organic General
*DDE	Chemistry Physical General
*DDF	Chemistry Nuclear
DDG	Chemistry Ceramics Glass
DDH	Glass Technology
*DDK	Chemistry Electrochemistry
DDL	Chemistry Textile
DDM	Chemistry Paper
*DDN	Chemistry Industrial
*DDP	Metallurgy
*DDX	Chemistry General
DEA	Navigational Terrestrial
*DED	Topography Including Photogrammetry
*DEX	Geodetic Science
*DFX	Geography General
*DFX	Geography Economic Political
DGA	Geology Surficial
DGB	Geology Stratigraphy
DGC	Seismology
DGD	Geology Terrestrial Mag-Electricity
DGE	Geology Economic
DGF	Geology General
DGG	Paleontology
DGH	Mineralogy Petrology
*DGK	Geological Engineering
*DGL	Meteorology Climatology
DGN	Nautical Sciences
DGP	Oceanography Hydrology
DGX	Geophysics
*DHA	Statistics
*DHE	Mathematics Cryptanalysis
*DHC	Mathematics Ballistics
*DHX	Mathematics General
*DKA	No Major (United States Military Academy)
DKB	No Major (United States Naval Academy)
DKC	No Major (United States Air Force Academy)
DKD	No Major (United States Coast Guard Academy)
DKF	Military Science (other than United States Academies)
*DLA	Physics Biophysics and Radiobiology
*DLB	Physics Electricity Magnetism Electronics
*DLD	Physics Nuclear
*DLE	Physics Optics Light (Optics)
DLF	Physics Thermal
DLG	Jet Propulsion
*DLH	Technology Nuclear Reactor
DLK	Applied Science
*DLM	Radiological Physics
DLN	Acoustics
*DLP	Aerodynamics
*DLX	Physics General
DXX	Physical Sciences General

E SOCIAL STUDIES

EAA Archeology
 *EAB Cultural Foundations
 EAC Ethnology
 EAX Anthropology
 *EBX Area Studies
 *ECA Police Science and Administration
 *ECX Criminology/Corrections
 *EDX Economics General
 *EEB Instructional Technology
 EEC Education Industrial
 EED Vocational and Educational Guidance
 EEE Vocations Subjects (Crafts, Trade)
 *EEX Education General (Teaching) Adm
 *EFA Recreations
 EFC Education Physical
 *EGX History General
 EHX Economics Home
 *EKB International Relations
 *EKC Foreign Affairs
 EKD Communications Sciences
 ELX Arts Industrial
 EMX Library Science Archives
 ENA Public Health
 *ENB Public Safety
 *ENC Government Civil
 END Government Military
 *ENE Social Work
 *ENF Administration Social Welfare
 ENX Public Relations
 EPA Psychology Abnormal
 *EPB Psychology Experimental
 EPC Psychology Clinical
 *EPD Psychology Social
 *EPE Psychology Applied
 EPF Psychometrics Psychophysics
 EPH Psychology Child
 *EPK Psychology Educational
 *EPL Psychology Counseling
 EPM Psychology Industrial
 *EPX Psychology General
 *ERA Geopolitics
 *ERX Political Science
 *ESX Sociology
 *ETX Mortuary Science
 EXX Social Science General

F MEDICAL ALLIED SCIENCE

FAX Podiatry (Chiropody)
 FBX Dietetics
 FBX Dietitian Administrative
 FBX Dietitian Therapeutic
 FBX Dietitian Clinical
 FBX Nutrition
 FCX Occupational Therapy
 FCX Occupational Therapy Kinesiology
 FCX Occupational Therapy Arts Crafts
 FDA Anatomy
 FDX Physical Therapy
 FDX Physical Therapy Electrophysics
 FDX Physical Therapy Neurology
 FDX Physical Therapy Corrective Exercise
 FEA Pathology Speech
 FEX Audiology
 FGA Bacteriology
 FGC Virology
 FHA Serology
 FHX Immunology
 FIB Pharmacology
 FIA Toxicology
 FKX Physiology

G MEDICINE AND SURGERY

GAX Anaesthesiology
 GBX Dermatology
 GCA Allergy
 GCB Cardiology
 GCC Gastroenterology
 GCC Gastrology
 GCC Proctology Non-Surgical
 GCD Tuberculosis
 GCF Syphilology
 GCH Urology Non-Surgical
 GCI Endocrinology
 GCL Rheumatic Diseases
 GCL Arthritis
 GCN Tropical Medicine
 GCX Medicine Internal
 GDX Gynecology
 GDX Obstetrics
 GDX Obstetrics/Gynecology
 GEX Ophthalmology
 GEX Surgery Eye
 GFX Bronchoscopy

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GFX Othorhinolaryngology
GGX Pathology
GHA Medicine Forensic
GIX Pediatrics
GJX Medicine Physical
GKA Medicine Aviation
GKB Industrial Hygiene
GKB Surgery Industrial
GKE Epidemiology
GKF Biomedical Engineering
GKK Medicine Preventive
GLA Psychiatry
GLC Neurology
GMA Roentgenology Diagnostic
GMC Roentgenology Therapeutic
GMF Atomic Medicine
GNA Surgery Thoracic
GNB Surgery Genitourinary
GNC Surgery Neurologic
GND Surgery Plastic
GNE Orthopaedics
GNE Surgery Orthopaedic
GNF Proctology Surgical
GNG Vascular Surgery
GNH Surgery Maxillofacial
GNX Surgery General
GOX General Medicine
GOX Osteopathy
GPX Basic Science
GPX Pre-Dental and Pre-Vet
GPX Medical Sciences General
GPX Pre-Med

H VETERINARY MEDICINE

HAX Pathology Tissue (Oncology)
HBX Veterinary Public Health
HBX Veterinary Inspection Meat Products
HBX Veterinary Inspection Dairy Products
HCB Surgery Small Animal
HCE Surgery Large Animal
HCX Laboratory Animal Sciences
HEX Veterinary Microbiology
HXX Medicine Veterinary

I DENTISTRY

IAA Dentistry Preventive
IBX Endodontics

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ICX Dental Roentgenology
ICX Dentistry General
ICX Dentistry Operative
IDA Oral Medicine
IEA Exodontia
IEX Surgery Oral
IFX Orthodontia
IGX Pedodontics
IHX Peridontia
IIX Dental Prosthesis
IJX Dental Materials

J NURSING

JAX Nursing Anesthesia
JBX Nursing Operating Room
JCC Nursing Cardio-Vascular Diseases
JCX Nurse Flight
JCX Nursing Medical-Surgical
JDA Nursing Pediatric
JDD Nursing Obstetrical
JDX Nursing Maternal and Child Health
JEC Nursing Mental Health
JEX Nursing Neuropsychiatry
JFX Nursing Public Health
JGX Nursing Education
JHB Nursing Administration
JXX Nursing General

K PHARMACY

KXX Pharmacy

L OPTOMETRY

LAX Physiologic Optics
LXX Optometry

M GRADUATE STUDY-MEDICAL

MXM Graduate Study-Medical

N GRADUATE STUDY-DENTAL

NXX Graduate Study-Dental

O GRADUATE STUDY-OSTEOPATHY

OXO Graduate Study-Osteopathy

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P LAW

PAX Law Admiralty
*PBA Law Administration
PBD Law Procurement
*PBF Law Customs Immigration
PBG Law Patent
PBH Law Contracts
PBI Law Labor Relations
PBK Law Tax
*PBX Law Civil (Corporation, Torts, Real Estate)
*PCX Law Criminal
PDX Law International
*PEX Law Pre-Law
PXX Law General

R EDUCATION EQUIVALENT

RAX No Indication of Major Subject
RBX Cooperative General Culture Test ((2C-X Test)
RCX General Education Development (GED) Test
RDX Officer's Educational Qualification (OEQ) Test
REX Three Year Hospital School of Nursing
RFX DA Education Equivalent (do not use for ANC officers)

APPENDIX E

CIVILIAN EDUCATION DEGREES

BA	Bachelor of Arts
BS	Bachelor of Science
BBA	Bachelor of Business Administration
BD	Bachelor of Divinity
LLB	Bachelor of Laws
STB	Bachelor of Sacred Theology
BTH	Bachelor of Theology
BLS	Bachelor of Library Science
BFA	Bachelor of Fine Arts
BE	Bachelor of Education
MA	Master of Arts
MDV	Master of Divinity
LLM	Master of Laws
MS	Master of Science
MBA	Master of Business Administration
MFA	Master of Fine Arts
MHA	Master of Hospital Administration
MPH	Master of Public Health
DO	Doctor of Osteopathy
DMD	Doctor of Dental Medicine
OD	Doctor of Optometry
DBA	Doctor of Business Administration
PHD	Doctor of Philosophy
MD	Doctor of Medicine
DDS	Doctor of Dental Surgery
JD	Doctor of Jurisprudence
SCD	Doctor of Science
DMV	Doctor of Veterinary Medicine
AA	Associate of Arts
OT	Occupational Therapist
CE	Civil Engineer
DPM	Doctor of Pediatric Medicine

APPENDIX F
SPECIAL EXPERIENCE IDENTIFIERS

<u>Code</u>	<u>Description</u>
0	Negative
1	Parachutist
2	Flight surgeon
3	Flight nurse
4	Army aviator
5	Tropic and jungle warfare (operations)
6	Helicopter pilot
7	Guerrilla
8	Ranger-commands
9	Special forces operation
A	Combat infantry badge
B	Office of Strategic Services
C	Counter guerrilla warfare/counter insurgency
D	Amphibious (tank)
E	Amphibious (engineer)
F	Mountain warfare training
G	Guided missile specialist
H	Arctic warfare training
I	Sentinel system (Artillery and Engineer)
J	Criminal investigation--laboratory technician
K	Polygraph machine operator (lie detector)
L	Military police train inspector
M	Unarmed defense expert (Judo and/or jujitsu)
N	Mob and riot control expert
O	Special weapons desposal
P	Army security experience
Q	Intelligence
R	Atomic Energy
S	Training foreign troops
T	Psychological warfare officer
U	Research and development
V	Public information
W	Foreign languages propaganda officer
X	Budget and comptroller
Y	Senior parachutist
Z	Master parachutist